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PR      07-JUL-1995;    95US-0000974.
PR      07-AUG-1995;    95US-0512861.
XX      XX
PA      (RIBO-) RIBOZYME PHARM INC.
PI      Draper K, Gustafson J, McSwiggen J, Pavco P, Stinchcomb DT;
PI      Beigelman L, Kapelsky A, Modak A, Usman N, Burgin A;
PI      Matlicic-Adamic J, Jarvis T, Thompson JD, Wincott F;
DR      WPI: 1996-300653/30.
XX      XX
PT      Enzymatic nucleic acid molecules having a hammer-head motif - used
PT      for the treatment of arthritis, induction of graft tolerance or
PT      treatment of auto-immune diseases
XX      XX
PS      Example 1: Page 165; 307pp; English.
XX      XX
CC      The present invention describes a novel enzymatic nucleic acid (ENA)
CC      having a hammerhead motif (HM) comprising: (i) at least 5 ribose
CC      residues; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii)
CC      at least ten 2'-O-methyl modifications; and (iv) a 3'-end modification.
CC      The ENA's can inhibit collagenase and stromelysin production in the
CC      synovial membrane of joints for the treatment or prevention of arthritis,
CC      particularly osteoarthritis or rheumatoid arthritis. The ENA's can also
CC      be used to treat antigen presenting cells of a donor to induce tolerance
CC      in a recipient to an alloantigen of a donor. They can also be used for
CC      enhancing graft tolerance or for treating autoimmune disease, and for
CC      treating allergies and other inflammatory conditions. The ENA's can also
CC      be used in diagnosis. Ribozyme therapy impacts on the expression of
CC      stromelysin without introducing the non-specific effects upon gene
CC      expression which accompany treatment with retinoids and dexamethasone.
CC      The concentration of ribozyme required to affect a therapeutic treatment
CC      is lower than that required of antisense molecules, and is highly
CC      specific. The present sequence is used in the exemplification of the
CC      present invention.
SQ      Sequence 54 BP; 20 A; 12 C; 13 G; 9 U; 0 other;
XX      XX
OY      1 ttggccttgctgcgttcgcttgcgt 25
DB      30 TGTTCCTGCTGGTGGTCCCTCTGTT 6
XX      XX
RESULT      2
AAC11234
ID      AAC11234 standard; cDNA: 54 BP.
XX      XX
AC      AAC11234;
XX      XX
DT      06-OCT-2000 (first entry)
XX      XX
DE      Human secreted protein 5' EST, SEQ ID NO: 15309.
KW      Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
KW      gene therapy; chromosome mapping; ss.
XX      XX
OS      Homo sapiens.
XX      XX
PN      EP1033401-A2.
XX      XX
PD      06-SEP-2000.
XX      XX
PF      21-FEB-2000; 2000EP-0200610.
XX      XX
PR      26-FEB-1999;    99US-0122487.
XX      XX
PA      (GEST ) GENSET.
XX      XX

```

PI	Dumas Milne Edwards J.,	Nucleirt A.	Giordano J:
DR	WPI: 2000-500381/45.		
XX			
PT	New nucleic acid that is a 5' expressed sequence tag (5' EST) for		
PT	obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for		
XX	diagnostic, forensic, gene therapy and chromosome mapping procedures -		
PS			
CC	Claim 1; SEQ ID 15309; 71pp + CD-ROM; English.		
CC			
CC	The present sequence is one of a large number of 5' ESTs derived from		
CC	mRNAs encoding secreted proteins. No ORF has yet been conclusively		
CC	identified within the present sequence. The 5' ESTs were prepared from		
CC	total human RNAs or polyA+ RNAs derived from 30 different tissues. EST		
CC	sequences usually correspond mainly to the 3' untranslated region (UTR)		
CC	of the mRNA because they are often obtained from oligo-dT primed cDNA		
CC	libraries. Such ESTs are not well suited for isolating cDNA sequences		
CC	derived from the 5' ends of mRNAs and even in those cases where longer		
CC	cDNA sequences have been obtained, the full 5' UTR is rarely included.		
CC	5' ESTs are derived from mRNAs with intact 5' ends and can therefore be		
CC	used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used		
CC	in diagnostic, forensic, gene therapy and chromosome mapping procedures.		
CC	They are used to obtain upstream regulatory sequences and to design		
CC	expression and secretion vectors.		
SO			
XX	Sequence 54 BP; 9 A; 5 C; 12 G; 28 T; 0 other;		
Query Match	57.9%; Score 16.8; DB 21; Length 54;		
Best Local Similarity	75.0%; Pred. No. 4.7e+02;		
Matches 21; Conservative	0; Mismatches 7; Indels 0; Gaps 0.		
OY			
2	ttggcttgcgtcgtcgtctgattcca 29		
Db	6 ttattgttgcgtcgtcgttcttcca 33		
RESULT 3			
AAS00064/C			
ID	AAS00064 standard; DNA; 30 BP.		
XX			
XX	AAS00064;		
XX			
DT	12-SEP-2001 (first entry)		
XX			
DE	Synthetic encoded DNA linker.		
XX			
KW	Encoded linker; microarray; protein display; addressing element; ss.		
XX			
OS	Synthetic.		
XX			
FT	Key		
FT	modified_base		
FT	30		
FT	/*tag= a		
FT	/mod_base= OTHER		
FT	/note= "Other= Covalently linked to puromycin"		
XX			
PN	WO200116352-A1.		
XX			
PD	08-MAR-2001.		
XX			
PF	25-AUG-2000; 2000WO-US23414.		
XX			
PR	27-AUG-1999; 99US-0151261.		
XX			
PA	(PHYL-) PHYLLOS INC.		
XX			
PI	Kuimelis RG;		
XX			
DR	WPI: 2001-183261/18.		
PT	Encoding and sorting in vitro translated proteins, useful for the		
PT	identification of desired binding partners, comprises attaching a		

PT nucleic acid linker to the protein and binding an encoding molecule to  
 PT the linker -

PS Example 2: Fig 5B; 48pp: English.

CC The sequence represents a DNA linker containing the 16-mer  
 CC addressing element (covalently linked to an in vitro translated protein)  
 CC used in methods to hybridise to a capture probe in order to immobilise  
 CC the protein to a solid support. The new methods are useful for tagging or  
 CC encoding in vitro translated proteins with unique and minimal encoding  
 CC molecules and sorting these molecules onto solid supports. They are also  
 CC useful for the identification of a desired binding partner. The method  
 CC allows the use of pre-made sets of universal encoding molecules, such as  
 CC nucleic acid(s) (analogues). These can be used in conjunction with  
 CC corresponding universal microarrays or sets of microparticles to create  
 CC new protein display systems which are flexible, modular, scalable and  
 CC cost effective. The method allows the use of nucleic acid analogues which  
 CC are not susceptible to enzymatic incorporation or polymerisation and are  
 CC superior to conventional DNA/RNA. The proteins can also be labelled with  
 CC fluorescent groups which can be used to monitor the protein in real time.  
 CC The absence of RNA is advantageous as they can adopt secondary structures  
 CC which are difficult to predict and can interfere with hybridisation steps  
 CC and protein folding/function.

SQ Sequence 30 BP; 20 A; 7 C; 3 G; 0 U; 0 other;

Query Match 56.6%; Score 16.4; DB 22; Length 30;

Best Local Similarity 76.9%; Pred. No. 6.5e+02;

Matches 20; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 2 ttgcttggtgcgttcgtctgtttt 27

Db 27 TTGGCTTGTGCTGTTTGTGTTT 2

RESULT 4

AAT56654/c

ID AAT56654 standard; RNA; 54 BP.

AC AAT56654;

DT 19-MAR-1997 (first entry)

DE Human TNF-alpha hairpin ribozyme sequence (nt. position 1168).

XX Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;

KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;

KW intercellular adhesion molecule; rel A; tumour necrosis factor;

KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;

KW Philadelphia chromosome; myelogenous leukaemia; CML; cancer;

KW atherosclerosis; myocardial infarction; stroke; restenosis;

KW transplant rejection; rheumatoid arthritis; psoriasis;

KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;

KW human immunodeficiency virus; acquired immune deficiency syndrome;

XX AIDS; ss.

XX Synthetic.

OS W09523225-A2.

PN 31-AUG-1995.

XX 23-FEB-1995; 95WO-IB00156.

XX 30-JAN-1995; 95US-0380734.

XX 23-FEB-1994; 94US-0201109.

XX 29-MAR-1994; 94US-0218934.

XX 04-APR-1994; 94US-0222795.

XX 07-APR-1994; 94US-0224483.

XX 15-APR-1994; 94US-0227958.

XX 15-APR-1994; 94US-0228041.

PR 18-MAY-1994; 94US-0245736.

PR 06-JUL-1994; 94US-0271280.

PR 15-AUG-1994; 94US-0291932.

PR 16-AUG-1994; 94US-0291433.

PR 17-AUG-1994; 94US-0292620.

PR 19-AUG-1994; 94US-0293520.

PR 02-SEP-1994; 94US-0300000.

PR 08-SEP-1994; 94US-0300303.

PR 23-SEP-1994; 94US-0311486.

PR 23-SEP-1994; 94US-0311748.

PR 28-SEP-1994; 94US-0314397.

PR 03-OCT-1994; 94US-0316771.

PR 07-OCT-1994; 94US-0319492.

PR 11-OCT-1994; 94US-0321993.

PR 04-NOV-1994; 94US-0334847.

PR 10-NOV-1994; 94US-0337608.

PR 28-NOV-1994; 94US-0345516.

PR 16-DEC-1994; 94US-0357577.

PR 23-DEC-1994; 94US-0363233.

PR (RIBO-) RIBOZYME PHARM INC.

XX Stinchcomb DT, Chowrira B, Dierenzo A, Draper KG, Dudycz LW;

PI Grimm S, Karpelsky A, Kisich K, Matulic-Adamic J;

PI McSwiggen JA, Modak A, Payco P, Belgelman L, Sullivan SM;

PI Sweedler D, Thompson JD, Tracz D, Usman N, Wincott FE;

PI Woolf T;

XX WPI: 1995-351090/45.

DR Ribozymes having modified bases and methods for producing them

XX for use in inhibiting disease related genes

PT Claim 9; Page 259; 407pp: English.

XX The present sequence is that of a claimed enzymatic nucleic acid

CC (i.e. a ribozyme) which cleaves TNF-alpha mRNA at the nucleotide

CC base position indicated in the DE line.

CC Regions of the mRNA that do not form secondary folding

CC structures and that contain potential hammerhead and hairpin

CC ribozyme cleavage sites were identified by computer analysis.

CC Ribozymes directed against these mRNA sequences were designed and

CC synthesised with modifications that improve their nuclease

CC resistance. The ribozymes are designed to cleave the target

CC sequences and thereby inhibit TNF-alpha expression, making them

CC potentially useful for treating rheumatoid arthritis, septic shock

CC and other inflammatory disorders including psoriasis, as well as

CC for treatment of AIDS.

XX Sequence 54 BP; 20 A; 10 C; 15 G; 9 U; 0 other;

Query Match 55.9%; Score 16.2; DB 16; Length 54;

Best Local Similarity 72.4%; Pred. No. 8.2e+02;

Matches 21; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 1 ttgcttggtgcgttcgtctgtttca 29

Db 30 TGTTCCTGCTGCTCTCTCTCTGTTCCA 2

RESULT 5

AAf79620

ID AAF79620 standard; DNA; 18 BP.

AC AAF79620;

DT 29-MAY-2001 (first entry)

DE Human Akt-3 antisense oligonucleotide, SEQ ID NO: 28.

XX Human; Akt-3; protein kinase; cytosolic; antiinflammatory; infection;

KW antisense therapy; inflammation; tumour; ss.

OS Homo sapiens.  
 XX US6187586-B1.  
 PN 13-FEB-2001.  
 PD 29-DEC-1999; 99US-0474922.  
 XX 29-DEC-1999; 99US-0474922.  
 PK (ISIS-) ISIS PHARM INC.  
 PA Monia BP, Cowser LM, Roth RA;  
 PI WPI-2001-264979/27.  
 DR New antisense compounds targeting nucleic acids encoding human Akt-3  
 XX useful for treating a disease or condition associated with Akt-3  
 PT expression, or in preventing or delaying inflammation or tumor  
 PT formation  
 PS Example 15; Column 38; 37pp; English.  
 XX The present sequence is one of a number of antisense compounds of up to  
 CC 30 nucleobases in length targeted to a nucleic acid encoding human Akt-3.  
 CC The antisense compounds are useful for inhibiting the expression of human  
 CC Akt-3 in human cells or tissues. They are also useful for modulating the  
 CC expression of Akt-3, and for treating a human or an animal suspected of  
 CC having, or being prone to, a disease or condition associated with Akt-3  
 CC expression. The antisense compounds may also be used as research  
 CC reagents, in kits and in diagnostics, e.g. to elucidate the function of a  
 CC particular gene or to distinguish between functions of various members of  
 CC a biological pathway; and as a prophylactic, e.g. to prevent or delay  
 CC infection, inflammation or tumour formation.  
 XX Sequence 18 BP; 0 A; 3 C; 6 G; 9 T; 0 other;  
 SQ

Query Match 55.2%; Score 16; DB 22; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 8.9e+02;  
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

Oy 2 ttgcttgatgctgc 17  
 ||||||||||||||||  
 Db 1 ttgcttgatgctgc 16

RESULT 5  
 AAA38033/C  
 ID AAA38033 standard; DNA; 39 BP.  
 XX AAA38033;  
 AC  
 XX 22-AUG-2000 (first entry)  
 DT  
 DE PCR primer for phosphotrehalase enzyme (trea) gene amplification.  
 XX  
 XX Trehalose-6-phosphate synthase; TPS; trehalose metabolism; potato;  
 KM transgenic plant; sugarcane; sugarcane; stress tolerant; food storage;  
 KW dehydration; PCR primer; trea; phosphotrehalase; ss.  
 XX  
 OS Bacillus subtilis.  
 XX  
 PN WO200022141-A2.  
 PD 20-APR-2000.  
 XX  
 PF 15-OCT-1999; 99WO-EP07913.  
 XX  
 PR 15-OCT-1998; 98EP-0203469.  
 XX  
 VA (130V-) LEUVEN RES & DEV.

PA	(BIOT-)INST BIOCNOLOGIA UNAM.
PB	
PI	Turriaga De La Fuente G, Thevelein JM, Van Dijck P;
PL	Masorro-gallardo JO, Van Vaecq C;
PM	
PN	WPI: 2000-317993/27.
PP	
PT	Preparation of eukaryotic organisms containing a genetic modification
PU	of the activity of trehalose-6-phosphate synthase useful for production
PV	of systems which are tolerant to stress
PS	-
XX	Example 10; Page 40; 79pp; English.
CC	This invention relates to a method for the preparation of a eukaryotic
CC	organism (plant, animal or fungi) which shows constitutive, inducible
CC	and/or organ specific expression of a specifically modified
CC	trehalose-6-phosphate synthase (TPS) gene. TPS is involved in trehalose
CC	metabolism, alongside trehalose-6-phosphate phosphatase (TPP). Trehalose
CC	metabolism plays an important role in storage sugar accumulation, stress
CC	resistance, and the control of glucose influx into glycolysis and
CC	glucose-induced signalling. The present sequence represents a PCR primer
CC	used to amplify the Bacillus subtilis phosphotrehalase enzyme (Trea)
CC	gene. The PCR product is used in a Trehalose-6-phosphate assay. The assay
CC	is used to test the effectiveness of the method of the invention. The
CC	method involves deleting the N-terminal fragment of the TPS-1 protein in
CC	order to achieve increased TPS-1 activity. The method provides plants,
CC	animals or fungi with elevated activity of TPS and/or altered regulatory
CC	capacity of TPS activity. Expression of TPS actively renders the
CC	organisms tolerant to stress so that for example crop plants could be
CC	cultured in regions suffering from heat, drought or freezing. Perishable
CC	foods from plant or animal origin could be preserved by simple
CC	dehydration, enabling storage over a prolonged period of time and
CC	transport over long distances. Potato, sugarbeet and sugarcane can be
CC	used as systems for overproducing trehalose which could then be used to
CC	preserve biomolecules for industrial use such as restriction and
CC	modification enzymes.
SQ	Sequence 39 BP; 15 A; 5 C; 11 G; 8 T; 0 other;
XX	
XX	
Query Match	54.5%; Score 15.8; DB 21; Length 39;
Best Local Similarity	89.5%; Pred. No. 1.le+03;
Matches 17; Conservative	0; Mismatches 2; Indels 0; Gaps 0;
OY	11 gtcgtcgcttctgattcca 29
	I I I I I (I I I I I I I I I I
DB	32 GGCGTTTGTCGTGTTCA 14
RESULT 7	
AAX64405/C	
ID	AAX64405 standard; RNA; 54 BP.
XX	
AC	
AAX64405;	
DT	20-JUL-1999 (first entry)
XX	
DE	Human stromelysin hairpin ribozyme SEQ ID NO:1037.
XX	
XX	
KW	Arthritic condition; graft tolerance; immune response; target; cleavage;
KW	hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase;
KW	stromelysin; synovial membrane; joint; arthritis; osteoarthritis;
KW	rheumatoid arthritis; autoimmune disease; allergy; inflammation;
KM	diagnosis; ss.
XX	
OS	Synthetic.
XX	
OS	Homo sapiens.
XX	
PN	WO9618736-A2.
PD	20-JUN-1996.
XX	
XX	
XX	22-NOV-1995; 95WO-US15516.
XX	

XX 05-OCT-1995; 95US-0541365.  
PR 13-DEC-1994; 94US-0354920.  
PR 23-DEC-1994; 94US-0363253.  
PR 23-DEC-1994; 94US-0363254.  
PR 17-FEB-1995; 95US-0390850.  
PR 20-APR-1995; 95US-0426124.  
PR 02-MAY-1995; 95US-0432874.  
PR 04-MAY-1995; 95US-0434509.  
PR 07-JUL-1995; 95US-0000951.  
PR 07-JUL-1995; 95US-0000974.  
PR 07-AUG-1995; 95US-0512861.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
XX  
PI Draper K, Gustofson J, McSwigen J, Pavco P, Stinchcomb DT;  
PI Beigelman L, Karpeisky A, Modak A, Usman N, Burgin A;  
PI Matulic-Adamic J, Jarvis T, Thompson JD, Wincott F;  
XX  
DR WPI: 1996-300653/30.  
XX  
PT Enzymatic nucleic acid molecules having a hammer-head motif - used  
PT for the treatment of arthritis, induction of graft tolerance or  
PT treatment of auto-immune diseases  
XX  
PS Example 1: Page 164; 307pp; English.  
XX  
CC The present invention describes a novel enzymatic nucleic acid (ENA)  
CC having a hammerhead motif (HM) comprising: (i) at least 5 ribose  
CC residues; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii)  
CC at least ten 2'-O-methyl modifications; and (iv) a 3'-end modification.  
CC The ENA's can inhibit collagenase and stromelysin production in the  
CC synovial membrane of joints for the treatment or prevention of arthritis,  
CC particularly osteoarthritis or rheumatoid arthritis. The ENA's can also  
CC be used to treat antigen presenting cells of a donor to induce tolerance  
CC in a recipient to an alloantigen of a donor. They can also be used for  
CC enhancing graft tolerance or for treating autoimmune disease, and for  
CC treating allergies and other inflammatory conditions. The ENA's can also  
CC be used in diagnosis. Ribozyme therapy impacts on the expression of  
CC stromelysin without introducing the non-specific effects upon gene  
CC expression which accompany treatment with retinoids and dexamethasone.  
CC The concentration of ribozyme required to affect a therapeutic treatment  
CC is lower than that required of antisense molecules, and is highly  
CC specific. The present sequence is used in the exemplification of the  
CC present invention.  
XX  
SQ Sequence 54 BP; 20 A; 12 G; 12 G; 10 U; 0 other;

Query Match 53.1%; Score 15.4; DB 17; Length 54;  
Best Local Similarity 76.0%; Pred. No. 1.7e+03;  
Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 1 ttggcttggtgcgttcgtctgtt 25  
I | | | | | | | | | |  
DB 30 TGTTCCTCTGCTAGTCTCTCTCTT 6

RESULT 8  
AAK75437/C  
ID AAK75437 standard; RNA; 54 BP.  
XX  
AC AAK75437;  
XX  
DT 28-JUL-1999 (first entry)  
XX  
DE Mouse flt-1 VEGF receptor hairpin ribozyme #21.  
XX  
KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1;  
KW flk-1; KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
KW foetal liver kinase 1; ss.

XX OS Synthetic.  
XX Mus sp.  
XX WO9715662-A2.  
XX  
XX 01-MAY-1997.  
PD  
XX 25-OCT-1996; 96WO-US17480.  
PF  
XX 11-JAN-1996; 96US-0584040.  
PR 26-OCT-1995; 95US-0005974.  
XX  
XX  
PA (CHIR ) CHIRON CORP.  
PA (RIBO-) RIBOZYME PHARM INC.  
XX  
PI Escobedo J, McSwigen J, Pavco P, Stinchcomb D;  
XX  
DR WPI: 1997-259017/23.  
XX  
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or  
PT mRNA stability - useful for treating e.g. tumour angiogenesis,  
PT psoriasis, rheumatoid arthritis, etc., in a human patient  
XX  
PS Claim 9: Page 185; 218pp; English.  
XX  
CC The present invention describes nucleic acid molecules which modulate  
CC the synthesis, expression and/or stability of a mRNA encoding 1 or more  
CC receptors of vascular endothelial growth factor (VEGF). A patient  
CC (preferably human) having a condition associated with the level of the  
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can  
CC be treated by administering the nucleic acid molecule or the expression  
CC vector to the patient. AAK67275 to AAK75752 represent specific examples  
CC of nucleic acid molecules from the present invention.  
XX  
SQ Sequence 54 BP; 20 A; 9 C; 14 G; 11 U; 0 other;

Query Match 53.1%; Score 15.4; DB 18; Length 54;  
Best Local Similarity 76.0%; Pred. No. 1.7e+03;  
Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 1 ttggcttggtgcgttcgtctgtt 25  
I | | | | | | | | | |  
DB 30 TGTTCCTCTGCTAGTCTCTCTT 6

RESULT 9  
AAK79619  
ID AAK79619 standard; DNA; 18 BP.  
XX  
AC AAK79619;  
XX  
DT 29-MAY-2001 (first entry)  
XX  
DE Human Akt-3 antisense oligonucleotide, SEQ ID NO: 27.  
XX  
KW Human: Akt-3; protein kinase; cytosolic; antiinflammatory; infection;  
KW antisense therapy; inflammation; tumour; ss.  
XX  
OS Homo sapiens.  
XX  
XX US6187586-B1.  
XX  
PD 13-FEB-2001.  
XX  
PF 29-DEC-1999; 99US-0474922.  
PR 29-DEC-1999; 99US-0474922.  
XX  
PA (ISIS-) ISIS PHARM INC.

XX Monia BP, Cowser LM, Roth RA;  
XX  
XX WPI: 2001-264979/27.  
DR  
XX  
PT New antisense compounds targeting nucleic acids encoding human Akt-3  
PT useful for treating a disease or condition associated with Akt-3  
PT expression, or in preventing or delaying inflammation or tumor  
PT formation -  
PS  
PS Claim 1; Column 38; 37pp; English.

CC The present sequence is one of a number of antisense compounds of up to  
CC 30 nucleobases in length targeted to a nucleic acid encoding human Akt-3.  
CC The antisense compounds are useful for inhibiting the expression of human  
CC Akt-3 in human cells or tissues. They are also useful for modulating the  
CC expression of Akt-3, and for treating a human or an animal suspected of  
CC having, or being prone to, a disease or condition associated with Akt-3  
CC expression. The antisense compounds may also be used as research  
CC reagents, in kits and in diagnostics, e.g. to elucidate the function of a  
CC particular gene or to distinguish between functions of various members of  
CC a biological pathway; and as a prophylactic, e.g. to prevent or delay  
CC infection, inflammation or tumour formation.

SQ Sequence 18 BP; 1 A; 3 C; 4 G; 10 T; 0 other;

Query Match 51.0%; Score 14.8; DB 22; Length 18;  
Best Local Similarity 88.9%; Pred. No. 2.7e+03;  
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0.

OY 12 tcgtcgtctgcttttca 29  
| | ||||| |||||  
Db 1 ttcgcgtctcgtttcca 18

RESULT 10  
AAK15829/C  
ID AAK15829 standard; DNA; 30 BP.

AC AAK15829;  
XX  
XX  
DT 26-MAY-1999 (first entry)  
XX  
DE PCR primer TH36 of the invention.  
XX  
KW Antibody; epitope; protein G; respiratory syncytial virus; RSV;  
RW RSV-related disease; PCR primer; ss.  
XX  
OS Synthetic.  
OS  
PN WO9903987-A2.  
XX  
PD 28-JAN-1999.  
XX  
PF 17-JUL-1998; 98WO-FR01570.  
XX  
PR 17-JUL-1997; 97FR-0009079.  
XX  
PA (FABR ) FABRE MEDICAMENT SA PIERRE.  
XX  
PI Beck A, Goestch L, Nguyen TN, Power U;  
XX  
WPI: 1999-132232/11.

PT New antibodies directed against epitopes in protein G of respiratory  
PT syncytial virus - used for treatment, prevention and diagnosis of  
PT RSV infections  
XX  
XX Example 3; Page 15; 54pp; French.  
XX  
CC The present PCR primer is used in the course of the invention.  
CC The specification describes mono- or polyclonal antibodies that

```

CC are directed against an epitope that corresponds to amino acids
CC 150-159, 176-189, 194-207 or 155-176 of protein G of respiratory
CC syncytial virus (RSV), subgroups A or B. The antibodies are used
CC for treating, preventing (passive or active immunisation) and
CC diagnosing RSV-related diseases, including differentiating between
CC infection by subgroups A or B.
CC
SQ Sequence 30 BP; 14 A; 11 C; 5 G; 0 U; 0 other;

Query Match          51.0%; Score 14.8; DB 20; Length 30;
Best Local Similarity 73.1%; Pred. No. 2.8e+03;
Matches 19; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

OY      3 tggcttgatgctgcgtctctgttc 28
          1 -| | | | | | | | | | | | | | |
Db      28 TCGGTTTGTCGTCGCTTTTTCCTTC 3

RESULT 11
ID      AAN92002 standard; DNA; 50 BP.
XX
AC      AAN92002;
XX
DT      17-APR-1990 (first entry)
XX
DE      Sequence probe complementary to Neisseria gonorrhoeae genomic sequence
DE      SSJk1 combined with the xtl capture sequence.
XX
KW      Neisseria gonorrhoeae genomic sequence SSJk1; xtl capture sequence;
        file 'rcjk'; jk1.probes1(50).
XX
OS      Neisseria gonorrhoeae.
XX
FH      Key Location/Qualifiers
FT      misc_feature 1..30
FT      /*tag= a
FT      /*sequence probe"
FT      31..50
FT      /*tag= b
FT      /*xtl capture sequence"
XX
PN      W08903891-A.
XX
PD      05-MAY-1989.
XX
PF      14-OCT-1988; 88WO-US03644.
XX
PR      30-SEP-1988; 88US-0252638, US-109282.
XX
PA      (CHIR-) CHIRON CORP.
XX
PI      Urdea MS, Warner B, Running JA, Kolberg JA, Clyne JM;
PI      Sanchez-Pescador R;
XX
DR      WPI; 1989-150787/20.
XX
PT      Nucleic acid multimer for hybridisation assays
PT      - having single-stranded oligo-nucleotide units
PT      capable of binding specifically to sequences of interest.
XX
PS      Fig 14; ; 112pp; English.
CC
CC The sequence probe (tag a ) is complementary to N. gonorrhoeae genomic
CC sequence SSJk1 from the file 'rcjk'. It is used to assay crude cellular
CC lysates and genomic DNA from different bacteria. It is called
CC jk1.probes1(50).
XX
SQ Sequence 50 BP; 8 A; 7 C; 14 G; 21 T; 0 other;

Query Match          51.0%; Score 14.8; DB 10; Length 50;

```



XX AAA59663;  
 AC  
 DT 14-NOV-2000 (first entry)  
 XX  
 DE PCR primer for cDNA encoding a human 12R-lipoxygenase polypeptide.  
 XX  
 KW Human: 12R-lipoxygenase; arachidonic acid; proliferate dermatosis;  
 KW 12R-hydroxyeicosatetraenoic acid; psoriasis; arachidonic acid metabolite;  
 XX PCR primer; ss.  
 OS Homo sapiens.  
 XX  
 PN US6103496-A.  
 XX  
 PD 15-AUG-2000.  
 XX  
 PF 29-MAY-1998; 98US-0087727.  
 XX  
 PR 29-MAY-1998; 98US-0087727.  
 XX  
 PA (UYVA-) UNIV VANDERBILT.  
 XX  
 PI Brash AR, Kim RB, Boeglin WE;  
 XX  
 DR WPI: 2000-542551/49.  
 XX  
 PT Novel isolated and purified nucleic acids encoding human  
 PT 12R-lipoxygenase protein useful as new target for therapy in psoriasis  
 XX  
 PS Example 1; Column 32; 32pp; English.  
 XX  
 CC PCR primers AAA59662-63 were used to amplify cDNA encoding a human  
 CC 12R-lipoxygenase polypeptide. The enzyme metabolizes arachidonic acid to  
 CC 12R-hydroxyeicosatetraenoic acid. The 12R-lipoxygenase polynucleotide  
 CC is used as a probe or primer and as a target in gene therapy methods for  
 CC treating psoriasis and other proliferate dermatoses which have  
 CC accumulated levels of unusual arachidonic acid metabolite in the skin.  
 CC It is also used as diagnostic tool to detect normal and abnormal DNA  
 CC sequences in DNA derived from patient cells, means for detecting and  
 CC isolating other members of the polypeptide family and related  
 CC polypeptides from a DNA library potentially containing such sequences,  
 CC primers for hybridizing to related sequences for the purpose of  
 CC amplifying those sequences, primers for altering native lipoxygenase  
 CC DNA sequence.  
 XX  
 SO Sequence 29 BP; 2 A; 1 C; 6 G; 20 T; 0 other.  
 XX  
 OY Query Match 50.3%; Score 14.6; DB 21; Length 29;  
 Best Local Similarity 81.0%; Pred. No. 3.3e+03;  
 Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 DB 7 ttgtgctgtgtgtgtgttt 27  
 3 ttgtgctgtgtgtgtgttt 23  
 DE  
 XX  
 AC AAX64475;  
 XX  
 DT 20-JUL-1999 (first entry)  
 XX  
 DE Rabbit stromelysin hairpin ribozyme SEQ ID NO:1107.  
 XX  
 KW Arthritic condition; graft tolerance; immune response; target; cleavage;  
 KW hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase;  
 KW stromelysin; synovial membrane; joint; arthritis; osteoarthritis;  
 KW Rheumatoid arthritis; autoimmune disease; allergy; inflammation;

KW diagnosis; ss.  
 XX  
 OS Synthetic.  
 OS Oryctolagus cuniculus.  
 XX  
 PN W09618736-A2.  
 XX  
 PD 20-JUN-1996.  
 XX  
 PF 22-NOV-1995; 95WO-US15516.  
 XX  
 PR 05-OCT-1995; 95US-0541365.  
 PR 13-DEC-1994; 94US-0354920.  
 PR 23-DEC-1994; 94US-0363253.  
 PR 23-DEC-1994; 94US-0363254.  
 PR 17-FEB-1995; 95US-0390850.  
 PR 20-APR-1995; 95US-0426124.  
 PR 02-MAY-1995; 95US-0432874.  
 PR 04-MAY-1995; 95US-0434509.  
 PR 07-JUL-1995; 95US-0000951.  
 PR 07-JUL-1995; 95US-0000974.  
 PR 07-AUG-1995; 95US-0512861.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI Draper K, Gustofson J, McSwiggen J, Pavco P, Stinchcomb DT;  
 PI Beigelman L, Karpeisky A, Modak A, Usman N, Burgin A;  
 PI Matulic-Adamic J, Jarvis T, Thompson JD, Wincott F;  
 XX  
 DR WPI: 1996-300653/30.  
 XX  
 CC Enzymatic nucleic acid molecules having a hammer-head motif - used  
 CC for the treatment of arthritis, induction of graft tolerance or  
 CC treatment of auto-immune diseases  
 XX  
 PS Example 1; Page 165; 307pp; English.  
 XX  
 CC The present invention describes a novel enzymatic nucleic acid (ENA)  
 CC having a hammerhead motif (HM) comprising: (i) at least 5 ribose  
 CC residues; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii)  
 CC at least ten 2'-O-methyl modifications; and (iv) a 3'-end modification.  
 CC The ENA's can inhibit collagenase and stromelysin production in the  
 CC synovial membrane of joints for the treatment or prevention of arthritis,  
 CC particularly osteoarthritis or rheumatoid arthritis. The ENA's can also  
 CC be used to treat antigen presenting cells of a donor to induce tolerance  
 CC in a recipient to an alloantigen of a donor. They can also be used for  
 CC enhancing graft tolerance or for treating autoimmune disease, and for  
 CC treating allergies and other inflammatory conditions. The ENA's can also  
 CC be used in diagnosis. Ribozyme therapy impacts on the expression of  
 CC stromelysin without introducing the non-specific effects upon gene  
 CC expression which accompany treatment with retinoids and dexamethasone.  
 CC The concentration of ribozyme required to affect a therapeutic treatment  
 CC is lower than that required of antisense molecules, and is highly  
 CC specific. The present sequence is used in the exemplification of the  
 CC present invention.  
 XX  
 SO Sequence 54 BP; 21 A; 10 C; 13 G; 10 U; 0 other.  
 XX  
 OY Query Match 50.3%; Score 14.6; DB 17; Length 54;  
 Best Local Similarity 69.0%; Pred. No. 3.5e+03;  
 Matches 20; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
 DB 1 ttgtgctgtgtgtgtgtgtttca 29  
 30 tctttctctgtgtgtgtgtgtttcttctttcttcttca 2

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